

Name: _____

Date: _____

Calculus: Review for Exam 2

Find the equation of the tangent line to the function at the given x-value for each of the following:

1) $f(x) = x^2 + 8x + 16$ when $x = -2$

2) $f(x) = \frac{2x}{x-3}$ when $x = 1$

3) $f(x) = \sqrt{3x-3}$ when $x = 4$

4) $f(x) = 3x^2 - 4x + 2$ when $x = 2$

5) $f(x) = \frac{-x}{2x+3}$ when $x = 3$

6) $f(x) = \sqrt{x^2 + 1}$ when $x = 0$